LLL		NNN	NNN	KKK	KKK	EEEEEEEEEEEEE		RRRRRRR
LLL	111111111	NNN	NNN	KKK	KKK	EEEEEEEEEEEEE	RRRRR	RRRRRRR
LLL	11111111	NNN	NNN	KKK	KKK	EEEEEEEEEEEE		RRRRRRR
iii	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
iii	111	NNN						
	* * * *		NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNNNNN	NNN	KKK	KKK	ĒĒĒ	RRR	RRR
LLL	iii	NNNNNN		KKK	KKK	ĒĒĒ	RRR	RRR
iii	111	NNNNN						
LLL	111			KKK	KKK	EEE	RRR	RRR
LLL	111	NNN I	NNN NNN	KKKKKKK	KK	EEEEEEEEEE	RRRRR	RRRRRRR
LLL	111	NNN I	NNN NNN	KKKKKKK	KK	EEEEEEEEEE	RRRRR	RRRRRRR
LLL	ĪĪĪ		NNN NNN	KKKKKKK		EEEEEEEEEE		RRRRRRR
LLL	111	NNN	NNNNNN	KKK	KKK	EEE	RRR	RRR
LLL	ĪĪĪ	NNN	NNNNNN	KKK	KKK	ĒĒĒ	RRR	RRR
iii	ĬĬĬ	NNN	NNNNNN	KKK	ŔŔŔ	ĔĔĔ	RRR	RRR
iii	111					CCC		
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
1111111111111	111111111	NNN	NNN	KKK	KKK	ĔĔĔEEEEEEEEEE	RRR	RRR
	;;;;;;;;;;	NNN	NNN	ŘŘŘ		EEEEEEEEEEEE		
	*******				KKK		RRR	RRR
		NNN	NNN	KKK	KKK	EEEEEEEEEEEE	RRR	RRR

THE THEFT THEFTHEFTHEFTHEFT HITTEL

SY LNN LNN LNN LNN LNN LNN LNN LNN

	NN NN NN NN NN NN NNNN NN NNNN NN NNN NN NN NN NN NN NN	KK	\$		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
i		\$						

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0051
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0054
0055
0056
0057
```

```
module lnk_statsout
                                                                     ! LINKER STATISTICS ROUTINE
                       (ident = 'V04-000'
                       ,addressing_mode
                                   (external
                                                     = general
                                   ,nonexternal = [ong_relative
                       ) =
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  FACILITY:
                       LINKER
  ABSTRACT:
                       ROUTINE DOES ALL THE WORK OF GATHERING AND OUTPUTTING STATISTICS OF THE LINK
  ENVIRONMENT: STARLET NATIVE MODE
  AUTHOR:
                       T.J. PORTER, CREATION DATE: 27-JUN-77
  MODIFIED BY:
                       ADE0001 Alan D. Eldridge 14-Aug-1984 Only output the options file contents if a full map
           V03-002 ADE0001
                       is requested.
           V03-001 JWT0099
                                              Jim Teaque
                                                                                14-Mar-1983
                       New CLI interface.
! TABLE OF CONTENTS:
forward routine
                                                                   ! OUTPUT THE STATISTICS
      lnk$statsout : novalue;
```

```
LNK_STATSOUT
VO4=000
                                                                                                                                                                                                                                    16-Sep-1984 00:33:36 VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 2 (1)
                                                        0058 1 ! INCLUDE FILES: 0059 1 !
              58
59
              60
                                                        0060
                                                                           1 library 'LIBL32':
                                                                                                                                                                                                                                                              ! GET PROCESS HEADER DEFINITIONS
              61
                                                        0061
                                                        0062
             6645667890127777777890
                                                                              1 require 'PREFIX';
                                                                                                                                                                                                                                                               ! USEFUL MACROS AND VARIABLES
                                                        0178
                                                                            1 library 'DATBAS';
                                                                                                                                                                                                                                                              ! LINKER DATA STRUCTURES
                                                        0179
                                                        0180
                                                                            1 sd ('$LINE');
                                                       0181
0 82
0183
0184
                                                                                     ! MACROS:
                                                                            1 macro
                                                                                                  textadr = 0.0.32.0%.
fltsadr = 1.0.32.0%.
cputadr = 2.0.32.0%.
stimadr = 3.0.32.0%:
                                                        0185 1
                                                        018¢ 1
0187 1
                                                        0188
                                                        0189
                                                        0190
                                                                           1 ! EQUATED SYMBOLS:
                                                       0191
0192
0193
0194
                                                                            1
                                                                            1 literal
                                                                                                   bufferleng = 132:
                                                                                                                                                                                                                                                            ! OUTPUT LINE BUFFER
             81
82
83
                                                        0195
                                                                           1 ! EXTERNAL REFERENCES:
                                                       0196 1 !
0197 1 external
                                                                                                                                                                                                                       te], ! POINTER TO OPTIONS TEXT
! LINK CONTROL FLAGS
! LOWEST ADDRESS ALLOCATED
! FREE MEMORY LISTHEAD
! CPU TIME AT START
! NUMBER OF SYMBOLS SEARCHED FOR IN THE WRONG LIBRARY
! NUMBER OF OBJ RECORDS READ FROM LIBRARIES
! NUMBER MODULES EXTRACTED TO RESOLVE SYMBOLS
! NUMBER OF MODULES EXTRACTED TO RESOLVE SYMBOLS
! TWO PASS COUNT OF OBJECT RECORDS READ
! NUMBER OF DEBUG DATA RECORDS
! NUMBER OF BYTES IN DEBUG RECORDS
! NUMBER OF BYTES IN DEBUG RECORDS
! VBN OF DEBUG SYMBOL TABLE
! NUMBER OF BLOCKS ALLOCATED
! END ADDRESS IN THE DST
! NUMBER OF GLOBAL SYMBOL TABLE
! START TIME QUADWORD
! END TIME QUADWORD
! END TIME QUADWORD
! PASS 1 START TIME
! START TIME
! SYMBOL TABLE OUTPUT START TIME
! SYMBOL TABLE OUTPUT START TIME
! CPU TIME AT START OF PASS 1
! CPU TIME AT START OF PASS 2
! CPU TIME AT START OF PASS 2
! CPU TIME AT START OF MALDOCATION PHASE
! CPU TIME AT START OF MALDOCATION PHASE
! CPU TIME AT START OF MAP OUTPUT
! CPU TIME AT START OF MAP OUTPUT
! CPU TIME AT START OF SYMBOL TABLE OUTPUT
! PAGE FAULT COUNT AT START OF ALLOCATION PHASE
                                                                                                ernal
lnk$gl_optextp : ref block [, byte],
lnk$gl_ctlmsk : block [, byte],
lnk$gl_minaddr,
lnk$gl_memlhd,
lnk$gl_memlhd,
lnk$gl_futlsrch,
lnk$gl_futlsrch,
lnk$gl_nmodsexp,
lnk$gl_nmodsexp,
lnk$gl_objrecs,
lnk$gl_objrecs,
lnk$gl_dbgestim,
lnk$gw_dstvbn : word,
lnk$gw_dstvbn : word,
lnk$gw_dstvbn : word,
lnk$gw_dstvbn : word,
lnk$gw_dstrim,
lnk$gw_gstrecs : word,
lnk$gw_gstrecs : word,
lnk$gy_gstrecs : word,
lnk$gq_pslstim,
lnk$gq_pslstim,
lnk$gq_pslstim,
lnk$gq_pslstim,
lnk$gq_alostim,
lnk$gq_bslcput,
lnk$gl_pslcput,
lnk$gl_stbcput,
lnk$gl_stbcput,
lnk$gl_stbcput,
lnk$gl_stbcput,
lnk$gl_stbcput,
lnk$gl_stbcput,
lnk$gl_pslflts,
lnk$gl_aloflts,
             84
                                                       0198
             85
                                                        0199
                                                     86
             87
             88
             89
             90
             91
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93
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95
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         100
         101
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         111
         112
```

LN VO

```
LNK_STATSOUT
V04=000
                                                                                                            16-Sep-1984 00:33:36
14-Sep-1984 12:40:36
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                 Page
                                                                                                                                                    [LÎNKER.SRC]LNKSTATSO.B32:1
                          02331
02331
02334
023334
023337
023337
02339
                                                lnk$gl_ps2flts.
                                                                                                                            PAGE FAULT COUNT AT START OF PASS 2
PAGE FAULT COUNT AT START OF MAP OUTPUT
     115
                                               ink$gi_mapfits,
     116
                                               lnk$gl_stbflts,
     117
                                                                                                                            PAGE FAULT COUNT AT START OF SYMBOL TABLE OUTPUT
                                               lnk$gl_spagflts,
lnk$gl_endflts,
lnk$gl_endcput;
     118
                                                                                                                            PAGE FAULT COUNT AT START OF THE LINK
     119
                                                                                                                            PAGE FAULT COUNT AT END
    CPU TIME AT END
                                     1 external routine
                                               cli$get_value,
                                                lnk$calcelaps.
                                                                                                                            ROUTINE TO DO THE QUADWORD ARITHMETIC
                                                                                                                            RETURNING ADDRESS OF THE NEGATIVE ("DELTA") ELAPSED TIME
                          0240
0241
0242
0243
                                                                                                                         ! OUPUTS LINE TO MAP
                                               InkSmapout:
                                       external literal
                                                len$c_mapline : wordlit,
                                                                                                                         ! LENGTH OF MAP LINE
                           0244
                                                                                                                         ! NUMBER OF BLOCKS IN WINDOW OF A LIBRARY
                                                lnk$k_libblocks : short;
                          1 literal
                                               phases = 9;
                                                                                                                        ! NUMBER OF PHASES FOR WHICH THERE ARE STATISTICS
                                           MODULE OWN STORAGE:
                                               command_desc : dynamic_descriptor;
                                        psect
                                               own = $plit$(nopic, concatenate, local, noshare, noexecute, nowrite);
                                              phastahd1: descriptor ('!50<Performance Indicators!>Page Faults phastahd2: descriptor ('!50<!22*-!>!11*- !8*- !12*-'), phastafmt: descriptor ('!50<!AS!>!11UL !2ZL:!2ZL:!2ZL.!2ZL totaltim: descriptor ('Total run values:'), comandtim: descriptor ('Total run values:'),
                                                                                                                                                                  CPU Time
                                                                                                                                                                                             Elapsed Time'),
     144
                                                                                                                                                                  !XT'),
     146
     148
                                               passitim : descriptor (
                                                                                              Pass 1:'),
     149
                                               alloctim : descriptor ('
                                                                                              Allocation/Relocation:'),
                       0264
0265
0266
P 0267
0268
     150
151
152
153
154
155
156
157
158
159
                                               pass2tim : descriptor ('
                                                                                              Pass 2:'),
                                               maptim : descriptor ('
                                                                                           Map data after object module synopsis:'),
                                               stbtim : descriptor ('
                                                                                           Symbol table output:'),
                                              workset: descriptor (
'Using a working set limited to !UL pages and !UL pages of data storage (excluding image)'),
objrecs: descriptor ('!50<Total number object records read (both passes):!>!UL'),
                           0269
                       P 0270
                                               librecs : descriptor (
                                               of which !UL were in libraries and !UL were DEBUG data records containing !UL bytes'), dbgdata: descriptor ('!UL bytes of DEBUG data were written, starting at VBN !UW with !UW blocks allocate
                           0271
                       P 0272
0273
                                               extrmods: descriptor ('!50<Number of modules extracted explicitly!> = !UL'), srchmods: descriptor (' with !UL extracted to resolve undefined symbols!),
                           0274
0275
0276
0277
0278
0279
0281
0282
0283
0284
     160
     161
                                               futlarch: descriptor ('!UL library searches were for symbols not in the library searched'), symrecs: descriptor ('A total of !UL global symbol table records was written'), phastatbl: blockvector [phases, 4] initial (
     162
     164
                                                                                o ,lnk$gl_spagfits,lnk$gl_cpustim,lnk$gq_startim, comandtim,lnk$gl_ps1fits,lnk$gl_ps1cput,lnk$gq_ps1stim, pass1tim,lnk$gl_alofits,lnk$gl_alocput,lnk$gq_alostim, alloctim,lnk$gl_ps2fits,lnk$gl_ps2cput,lnk$gq_ps2stim, pass2tim,lnk$gl_mapfits,lnk$gl_mapcput,lnk$gq_mapstim, maptim,lnk$gl_stbfits,lnk$gl_stbcput,lnk$gq_stbstim, stbtim,lnk$gl_endfits,lnk$gl_endcput,lnk$gq_endtim,
     165
     166
     167
     168
     169
     170
     171
```

**

VAX-11 Bliss-32 V4.0-742 ELINKER.SREJLNKSTATSO.B32:1 LNK_STATSOUT Page 4 O , ink\$gi_spagfits, ink\$gi_cpustim, ink\$gq_startim, totaltim, ink\$gi_endfits, ink\$gi_endcput, ink\$gq_endtim), cvt2secs: initial (100), cvtsecsmins: initial (60); 0286 0287 0288 0289 0290 172 173 174 175 176

VO.

VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;1

FUNCTIONAL DESCRIPTION: THIS MODULE COMPUTES AND OUTPUTS TO THE MAP A GAGGLE OF THE STATISTICS ACCUMULATED BY THE LINKER AND THE SYSTEM DURING THE RUN

FORMAL PARAMETERS:

LNK_STATSOUT

0301

0305

0306

0307

0308

0309 0310

0311

0316 0317

0318 0319

0320

0321 0322 0323

0324

0325

0330

0331

0336

0337

0338

0339

0340

V04=000

179

180 181

186 187

188

189

190 191

192 193

194

195

196

197

198

199

200 201

202 203 204

205

206 207

208 209

21456782222222222223312334

NONE

IMPLICIT INPUTS:

NONE

IMPLICIT OUTPUTS:

NONE

ROUTINE VALUE:

COMPLETION CODES:

NONE

SIDE EFFECTS:

NONE

builtin ediv:

local

buffer : ch\$sequence (bufferleng), outbufdesc : vector [2]. pagefaults. cputime : vector [2].

sectrac. cpusecs : vector [2],
cpumins : vector [2],

cpuhours, worksetlim, memused : ref vector, dbgbytes,
outlineleng : word;

! INITIALIZE FAO'S BUFFER

outbufdesc [0] = bufferleng; outbufdesc [1] = buffer; cputime [1] = 0; cpusecs [1] = 0; cpumins [1] = 0; lnk\$mapout (buffer, 0); \$fao (phastahd1, outlineleng, outbufdesc); lnk\$mapout (buffer, .outlineleng);

! OUTPUT LINE BUFFER

! LENGTH OF FORMATTED LINE RETURNED BY FAO

! ITS DESCRIPTOR

DESCRIPTOR

```
LN
V0
```

```
G 11
16-Sep-1984 00:33:36
LNK_STATSOUT
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;1
                                                                                                                                                                                                                                       Page
                                                                                                                       14-Sep-1984 12:40:36
                         03459
0335555456789
033555556789
03355556789
03365
                                                    $fao (phastahd2, outlineleng, outbufdesc);
     lnk$mapout (buffer, .outlineleng);
                                                    incr i from 1 to phases - 1 do
                                                            if .phastatbl [.i, textadr] neg 0
                                                            then
                                                                  beain
                                                                  0364
                             0365
                                                                   lnk$mapout (buffer, .outlineleng);
                             0366
0367
0368
0369
0370
                                                                   end:
                                                    $adjwsl (pagent = 0, wsetlm = worksetlim);
                                                    memused = lnk$gl_memlhd;
                                                    while .memused [0] neq 0 do
                             0372
0373
                                                           memused = .memused [0]:
     260
                             0374
0375
     261
                                                    memused = (memused [0] - .lnk$gl_minaddr + 511)/512;
                                                   memused = (memused log = .lnksgl_minaddr + )11//>12;
lnk$mapout (buffer, 0);
$fao (workset, outlineleng, outbufdesc, .worksetlim, .memused);
lnk$mapout (buffer, .outlineleng);
lnk$mapout (buffer, 0);
$fao (objrecs, outlineleng, outbufdesc, .lnk$gl_objrecs);
lnk$mapout (buffer, .outlineleng);
$fao (librecs, outlineleng, outbufdesc, .lnk$gl_librecs, .lnk$gw_dbgrecs, .lnk$gl_dbgestim);
lnk$mapout (buffer, .outlineleng);
     262
                             0376
0377
0378
0379
     263
     264
     265
266
     267
268
                             0380
                             0381
                             0382
0383
     269
270
271
273
274
275
276
278
279
                             0384
                                                    if (dbgbytes = .lnk$gl_dstend) neq 0 and (.lnk$gl_ctlmsk [lnk$v_dbg] or .lnk$gl_ctlmsk [lnk$v_trace])
                             0385
                                                    then
                             0386
                             0387
                                                           $fao (dbgdata, outlineleng, outbufdesc, .dbgbytes, .lnk$gw_dstvbn, .lnk$gw_dstblks);
                             0388
                                                            lnk$mapout (buffer, .outlineleng);
                             0389
0390
0391
0392
0393
                                                           end:
                                                   ink$mapout (buffer, 0);
$fao (extrmods, outlineleng, outbufdesc, .lnk$gl_nmodsexp);
Ink$mapout (buffer, .outlineleng);
$fao (srchmods, outlineleng, outbufdesc, .lnk$gl_nmodsrch);
Ink$mapout (buffer, .outlineleng);
Ink$mapout (buffer, 0);
$fao (futlsrch, outlineleng, outbufdesc, .lnk$gl_futlsrch);
Ink$mapout (buffer, .outlineleng);
Ink$mapout (buffer, 0);
$fao (symrecs, outlineleng, outbufdesc, (.lnk$gw_symrecs + .lnk$gw_gstrecs));
Ink$mapout (buffer, .outlineleng);
Ink$mapout (buffer, .outlineleng);
Ink$mapout (buffer, 0);
! SKIP A LINE
     280
     281
282
283
284
285
286
                             0394
0395
0396
0397
                             0398
0399
     287
                             0400
     288
                              0401
                             0402
0403
     289
     290
     291
                                               PRINT THE COMMAND LINE
```

```
H 11
                                                                                  16-Sep-1984 00:33:36
14-Sep-1984 12:40:36
LNK_STATSOUT
                                                                                                                 VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;1
   292
293
294
295
298
298
290
                    0405
0407
0408
0410
0411
0413
0415
0417
                                    begin
                                    local
                                         pchars.
                                         nchars,
                                         chars;
                                    pchars = 0:
                                   cli$get_value(sd_$line, command_desc);
chars = .command_desc [dsc$w_length];
                                                                                            ! Get commmand line from CLI
   301
   302
   303
                                    while (.chars gtr 0) do
   304
                                         begin
   305
                    0418
                                        nchars = min (.chars, len%c_mapline);
lnk%mapout (.command_desc [dsc%a_pointer] + .pchars, .nchars);
   306
   307
                                         chars = .chars - .nchars;
   308
                                         pchars = .pchars + .nchars;
   309
                                         end:
   310
   311
                                 PRINT THE OPTION FILE (IF PRESENT) if "/FULL" MAP REQUESTED
   312
                                   313
   314
   315
                                              316
                                                                                                                 !PRINT THE LINE
                    0430
0431
0432
0433
   317
   318
   319
                                              lnk$gl_optextp = .lnk$gl_optextp [oeb$l_nxtoeb];
                                                                                                                 !LINK TO NEXT LINE
   320
                                              end:
   321
322
323
324
                    0434
                    0435
                                   end:
                    0436
                                   return:
                                   end:
                                                                                            ! End of LNK$STATSOUT
                                                                                                        LNK_STATSOUT
                                                                                               .TITLE
                                                                                               .IDENT
                                                                                               .PSECT
                                                                                                        SPLITS.NOWRT.NOEXE.2
                                                                             00000 P.AAB:
                                                       4E 49 4C 24
                                                                                               .ASCII
                                                                                                         \$LINE\
                                                                                               BLKB
                                                                             00005
                                                                00000005
                                                                             00008 P.AAA:
                                                                000000000
000000000
35 21
49 20
65 67
50 43
                                                                                               .ADDN SS P.AAB
.ASCII \!50<Performance Indicators!>Page Faults-
                                                                             0000C
                                                   50
69
61
54
                                             65
63
75
69
                         72
72
09
                                        72
61
                                                                             ŎŎŎĬŎ P.AAC:
                                   66
74
74
65
         6E
3E
                    6D
73
                                                        64 60 69
                              6F
73
09
                                                             6E
20
55
               21
                                                                             0001F
                                                                                                         \<9>
                                         60
                                                                             0002E
                                        6D
00
         70
                                                                             00038
                                                                                               .ASC:I \CPU Time\<9>\Elapsed Time\<0><0><0>
               61
                    60
                                    00
                                                                             00047
                                                   6D
                                                                             00050 PHASTAHD1:
                                                                0000003D
                                                                                               .LONG
                                                                                                        61
                                                                                               .ADDRESS P.AAC
.ASCII \!50<!22*-!>!11*-\<9>\!8*-\<9>\!12*-\<0>
                                                                00000000
                                                                  35
                                                                       21
20
                                                                             00058 P.AAD:
                                              32
2D
                                                        3C
38
                                         32
09
   31
                                   2A
21
                                                                             00067
                                                                             00074 PHASTAHD2:
                                                                0000001B
                                                                                               .LONG
                                                                00000000 00078
                                                                                               .ADDRESS P.AAD
```

	LNK V04=	STA 000	TSOU	T										I 11 16-Sep-1984 00:33:36	ge 8 (2)
I	09 2E	4C 4C	55 5A	31 32	31 21	21 3A	3E 40	21 5A	53 32	41 21 00	21 3A 00	3C 4C 54	30 35 21 5A 32 21 5A 32 21 25 21 09 00000026	0007C P.AAE: .ASCII \!50 AS! !11UL\<9>\!2ZL:!2ZL:!2ZL.!2ZL\ 0008B 0009A 0009E .ASCII <9>\!XT\<0><0> 000A4 PHASTAFMT: .LONG 38	
	65	75	60	61	76	20	6E	75	72	20	6C 00	61 00	74 6F 54 00 3A 73 00000011	000A8 .ADDRESS P.AAE 000AC P.AAF: .ASCII \Total run values:\<0><0><0> 000BB 000CO TOTALTIM:	
	6F	72	70	20	64	6E	61 00	6D 3A	6D 67	6F 6E	43 69	20 73	00000000° 20 20 20 73 65 63 00000017	.LONG 17 000C4 .ADDRESS P.AAF 000C8 P.AAG: .ASCII \ Command processing:\<0> 000D7 000E0 COMANDTIM:	
				00	3A	31	20	73	73	61	50	20	00000000° 20 20 20 0000000B	.LONG 23 000E4 .ADDRESS P.AAG 000E8 P.AAH: .ASCII \ Pass 1:\<0> 000F4 PASSITIM:	
	2F	6E	6F 00	69 00	74 3A	61 6E	63 6F	6F 69	6C 74	6C 61	41 63	20 6F	00000000° 20 20 20 6C 65 52 0000001A	.LONG 11 000F8 .ADDRESS P.AAH 000FC P.AAI: .ASCII \ Allocation/Relocation:\<0><0> 0010B 00118 ALLOCTIM:	
				00	3A	32	20	73	73	61	50	20	000000000° 20 20 20 0000000B	.LONG 26 0011C .ADDRESS P.AAI 0012O P.AAJ: .ASCII \ Pass 2:\<0> 0012C PASS2TIM:	
	56 75	61 64	20 6f	61 6D	74 20	61 74 69	64 63 73	20 65 70	70 6A 6F	61 62 6E	4D 6F 79	20 20 73 00	00000000° 20 20 20 72 65 74 20 65 6C 00 3A 73	.LONG 11 00130 .ADDRESS P.AAJ 00134 P.AAK: .ASCII \ Map data after object module synopsi\ 00143 00152 0015C .ASCII \s:\<0><0>	
	5 C	62	61	74	20	60	6F 3A	62 74	6D 75	79 70	53 74	20 75	0000002A	00160 MAPTIM: .LONG 42 00164 .ADDRESS P.AAK 00168 P.AAL: .ASCII \ Symbol table output:\	
							5A	74	75	70	74	75	00000018	00177 00180 STBTIM: .LONG 24	
	67 6F	6E 74	69 20	6B 64	72 65	6F 74	77 69	20 60	61 69	90 50	67 20	6E 74	00000000° 69 73 55 65 73 20	.ADDRESS P.AAL 00188 P.AAM: .ASCII \Using a working set limited to !UL pages\ 00197 001A6	
	20 65	73 67	65 61	67 72	61 6F	6F 74 73 70 74 6E	77 69 65 20 73 69	20 67 40 20 64 29	69 61 55 61 75	20 60 70 21 74 60 67	67 20 20 61 63	674C4648	69 73 55 65 73 20 55 21 20 6E 61 20 20 66 6F 65 28 20 69 20 67 00000058 000000000	001B0 .ASCII \ and !UL pages of data storage (excludin\ 001BF 001CE	•
								29	65	6/	61	6D	00000058	001D8 .ASCII \g image\\ 001EO WORKSET:.LONG 88	<i>:</i>
	65 64	62 72	6D 6F	75 63	6E 65	20 72	6C 20	61 74	74 63	6F 65	54 6A	3C 62	30 35 21 6F 20 72	O01E4 .ADDRESS P.AAM O01E8 P.AAN: .ASCII \!50 <total (bo\="" 001f7<="" number="" object="" read="" records="" td=""><td>•</td></total>	•
1	55	21	3E	21	3A	6F 29	60 62 73	61 74 28 65	74 63 20 73	6F 65 64 73	54 6A 61 61	3C 62 65 70	30 35 21 6F 20 72 72 20 73 20 68 74	001F7 00206 00210 .ASCII \th passes):!>!UL\	•
	55	21	20	68	63	69	68	77	20	66	6F	20	00000038 000000000 20 20 20	0021F 00220 OBJRECS:.LONG 56 00224 .ADDRESS P.AAN 00228 P.AAO: .ASCII \ of which !UL were in libraries and !\	•

LN VO

V0

```
LNK_STATSOUT
V04=000
                                                                                                                                 16-Sep-1984 00:33:36
14-Sep-1984 12:40:36
                                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742 
ELINKER.SRCJLNKSTATSO.B32;1
                                                                                                                                                                     LNK$GQ_STBSTIM, STBTIM, LNK$GL_ENDFLTS, - LNK$GL_ENDCPUT, LNK$GQ_ENDTIM
                                                                                                                                                      _LONG
                                                                                                     0000000
                                                                                                                         00458
                                                                                                                                                      ADDRESS LNKSGL_SPAGFLTS, LNKSGL_CPUSTIM, -
LNKSGQ_STARTIM, TOTALTIM, LNKSGL_ENDFLTS, -
LNKSGL_ENDCPUT, LNKSGQ_ENDTIM
00000000 0045C
                                                                                                     00000000 00474
                                                                                                     00000064
                                                                                                                         00478 CVT2SECS:
                                                                                                                                                        LONG
                                                                                                                                                                     100
                                                                                                     0000003C 0047C CVTSECSMINS:
                                                                                                                                                      .LONG
                                                                                                                                                                     60
                                                                                                                                                      .PSECT
                                                                                                                                                                     SOWNS, NOEXE, 2
                                                                                                             0000
                                                                                                                         00000 COMMAND_DESC:
                                                                                                                                                      .WORD
                                                                                                                         00002
                                                                                                                                                                     020
                                                                                                                                                      .BYTE
                                                                                                                                                      .BYTE
                                                                                                     0000000
                                                                                                                         00004
                                                                                                                                                      .LONG
                                                                                                                                                                    P.AAA
LNK$GL_OPTEXTP, LNK$GL_CTLM$K
LNK$GL_MINADDR, LNK$GL_MEMLHD
LNK$GL_MINADDR, LNK$GL_FUTLSRCH
LNK$GL_LIBRECS, LNK$GL_NMODSEXP
LNK$GL_NMODSEXP
LNK$GL_OBJRECS, LNK$GW_DBGRECS
LNK$GL_OBJRECS, LNK$GW_DSTBLKS
LNK$GL_DBGESTIM
LNK$GW_DSTVBN, LNK$GW_SYMRECS
LNK$GW_DSTVBN, LNK$GW_SYMRECS
LNK$GW_GSTRECS, LNK$GW_SYMRECS
LNK$GW_GSTRECS, LNK$GW_SYMRECS
LNK$GW_GSTRECS, LNK$GW_SYMRECS
LNK$GW_ALOSTIM, LNK$GQ_PSISTIM
LNK$GQ_ALOSTIM, LNK$GQ_PSISTIM
LNK$GQ_MAPSTIM, LNK$GQ_PSISTIM
LNK$GQ_MAPSTIM, LNK$GQ_PSISTIM
LNK$GL_PSICPUT, LNK$GL_ALOCPUT
LNK$GL_PSICPUT, LNK$GL_PSIFLTS
LNK$GL_ALOFLTS, LNK$GL_PSIFLTS
LNK$GL_ALOFLTS, LNK$GL_STBFLTS
LNK$GL_ENDFLTS, LNK$GL_ENDCPUT
CLI$GET_VALUE, LNK$CALCELAPS
LNK$MAPOUT, LEN$C_MAPLINE
LNK$K_LIBBLOCKS
SYSSETO_SYSSAR_LUST
                                                                                                                                     SD_$LINE=
                                                                                                                                                                              P.AAA
                                                                                                                                                      .EXTRN
                                                                                                                                                                     LNKSK LIBBLOCKS
SYSSFAO, SYSSADJWSL
                                                                                                                                                      .EXTRN
                                                                                                                                                      .EXTRN
                                                                                                                                                      .PSECT $CODE$, NOWRT, 2
                                                                                                               OFFC 00000
                                                                                                                                                                     LNK$STATSOUT, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0291
                                                                                                                                                      .ENTRY
                                                                                                                                                                     R10,R11
                                                                                                                                                                     LNKSGL_CTLMSK, R11
SYSSFAO, R10
                                                                               5B 00000000G
                                                                                                                         00002
                                                                                                                                                     MOVAB
                                                                                    00000000G
                                                                                                           ÕÕ
                                                                                                                   9E 00009
                                                                                                                                                     MOVAB
                                                                                                                                                                    LNK$MAPOUT, R9
PHASTATBL, R8
-172(SP), SP
#132, OUTBUFDESC
BUFFER, OUTBUFDESC+4
                                                                               59
                                                                                                           00
                                                                                                                   9E 00010
                                                                                    0000000G
                                                                                                                                                     MOVAB
                                                                                                           ĔĔ
                                                                                                                   9Ē 00017
                                                                               58
                                                                                     00000000
                                                                                                                                                     MOVAB
                                                                                                                   9E 0001E
                                                                               5E
                                                                                                           CE
                                                                                             FF54
                                                                                                                                                     MOVAB
                                                                                                           8F
                                                                                                                   9Ā 00023
                                                                                                                                                     MOVZBL
                                                                                                           AE
                                                                                                                   9E 00028
                                                                               AE
                                                                                                                                                     MOVAB
                                                                                                                   D4
                                                                                                                         0002D
```

CLRL

CPUTIME+4

VO

LNK_STATSOUT		L 11 16-Sep-1984 00:33:36 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:40:36 [LINKER.SRC]LNKSTATSO.B32;1	Page 11 (2)
	14 AE 00 AE 7E		: 0343 : 0344 : 0345
	14 AE 0C AE 7E 2C AE 08 AE 68 C8 68 C8 69 20 AE 69 C8 O3 69 C8 O3 60 C8 O3	D4 00036 CLRL -(SP) 9F 00038 PUSHAB BUFFER FB 0003B CALLS #2, LNK\$MAPOUT 9F 0003E PUSHAB OUTBUFDESC 9F 00041 PUSHAB OUTLINELENG	0346
	F C 68 C 8 6A 03 7E 04 AE 2C AE	FB 0003B CALLS #2, LNK\$MAPOUT 9F 0003E PUSHAB OUTBUFDESC 9F 00041 PUSHAB OUTLINELENG 9F 00044 PUSHAB PHASTAHD1 FB 00048 CALLS #3, SYS\$FAO 3C 0004B MOVZWL OUTLINELENG, -(SP) 9F 0004F PUSHAB BUFFER	0347
	69 20 AE 08 AE	3C 0004B MOVZWL OUTLINELENG, -(SP) 9F 0004F PUSHAB BUFFER FB 00052 CALLS #2, LNK\$MAPOUT 9F 00055 PUSHAB OUTBUFDESC 9F 00058 PUSHAB OUTLINELENG	0348
	FC8C C8 6A 03 7E 04 AE 2C AE	FB 00052 CALLS #2, LNK\$MAPOUT 9F 00055 PUSHAB OUTBUFDESC 9F 00058 PUSHAB OUTLINELENG 9F 0005B PUSHAB PHASTAHD2 FB 0005F CALLS #3, SYS\$FAO 3C 00062 MOVZWL OUTLINELENG, -(SP) 9F 00066 PUSHAB BUFFER FB 00069 CALLS #2, LNK\$MAPOUT D0 0006C MOVL #1, I	0349
53	7E 04 AE 2C AE 02 02 52 01 52 04 6843 9E	DO 0006C MOVL #1, I 78 0006F 1\$: ASHL #4, I, R3	0351 0353
50	03 0082 04 A843 54 9E 52 04	51 0007A BRW 55 9F 0007D 28+ PHSHAR PHASTATR! +4[R3]	0356
57	F4 A840 51 9E 64 61 08 A843	9F 00088 PUSHAB PHÁSTÁTBL-12[R0] D0 0008C MOVL a(SP)+, R1 C3 0008F SUBL3 (R1), (R4), PAGEFAULTS 9F 00093 PUSHAB PHASTATBL+8[R3]	0357
18 AE 56 10 AE 18 10 AE 08 AE 10 08 AE 55 08	F8 A840 51 9E 64 61	C3 000A1 SUBL3 (R1), (R4), CPUTIME	0358
10 AE 08 AE 10 08 AE 55 08	OC A843 9E	9F 000C2 PUSHAB PHASTATBL+12[R3] DD 000C6 PUSHL \(\textbf{a}\)(SP)+	: 0359 : 0360 : 0364
000000006	FC A840 9E 00 02 50	DD QQQCC PUSHL a (SP)+	
	00 02 50 56 18 AE 14 AE 55 57	DD 000D7 PUSHL SECFRAC DD 000D9 PUSHL CPUSECS DD 000DC PUSHL CPUMINS DD 000DF PUSHL CPUHOURS	
	6843 9E 3C AE 24 AE FCBC C8	DD 000E1 PUSHL PAGEFAULTS 9F 000E3 PUSHAB PHASTATBL[R3] DD 000E6 PUSHL a(SP)+ 9F 000E8 PUSHAB OUTBUFDESC 9F 000EB PUSHAB OUTLINELENG	
	FCBC C8 6A 0A 7E 04 AE	9F 000EB PÚSHAB ÖÜTLÍNELÉNG 9F 000EE PUSHAB PHASTAFMT FB 000F2 CALLS #10, SYS\$FAO 3C 000F5 MOVZWL OUTLINELENG, -(SP)	0365

LN VO

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LNK_STATSOUT V04=000				M 11 16-Sep-19 14-Sep-19	984 00:33 984 12:40	:36 VAX-11 Bliss-32 V4.0-742 :36 [LINKER.SRC]LNKSTATSO.B32;1	Page 12 (2)
FF6A	52	69 01	AE 02 08 5E	9F COOF9 FB 000FC F1 000FF 3\$: DD 00105	PUSHAB CALLS ACBL PUSHL	BUFFER #2, LNK\$MAPOUT #8, #1, I, 1\$ SP	0353 0368
	00000000	00 52 00000000G	AC 08 E E 20 0 6 0 6 F	F1 000FF 5\$: DD 00105 D4 00107 FB 00109 9E 00110 D5 00117 4\$: 13 00119 D0 0011B 11 0011E C3 00120 5\$: 9E 00128 C7 0012D D4 00135 9F 00137 FB 0013A DD 0013D	CLRL CALLS MOVAB TSTL BEQL	-(SP) #2, SYS\$ADJWSL LNK\$GL MEMLHD, MEMUSED (MEMUSED) 5\$	0369 0371
		52		DO 00118 11 0011E	MOVL Brb	(MEMUSED), MEMUSED 4\$	0372
	50 52	52 00000000G 50 01FF 50 00000200	00	C3 00120 5\$: 9E 00128 C7 0012D	SUBL3 MOVAB	LNK\$GL_MINADDR, MEMUSED, RO 511(RO), RO #512, RO, MEMUSED -(SP)	0374
	72	20	7E AE	D4 00135 9F 00137	PUSHAB	-(SP) BUFFER	0375
		69	02 52	FB 0013A DD 0013D	CALLS	#2, LNK\$MAPOUT MEMUSED	0376
		04 28 10	00 87 82 82 85 86 85 85 85	DD 0013D DD 0013F 9F 00142 9F 00145 9F 00148 FB 0014C 3C 0014F 9F 00153	PUSHAB PUSHAB PUSHAB CALLS MOVZWL PUSHAB CALLS CALLS	WORKSETLIM OUTBUFDESC OUTLINELENG	•
		FDF8 6A 7E 04	05 AE	FB 00146 3C 0014F	CALLS MOVZWL	OUTLINELENG WORKSET #5, SYS\$FAO OUTLINELENG, -(SP)	0377
		7E 04 2C 69	AE O2 7E AE	סכוטט פז	PUSHAB CALLS	#2. LNK\$MAPOUT	:
		20	/E AE	04 00159 9F 0015B	rusnad	-(\$P) BUFFER	0378
		000000006	02 00 AE AE 08	FB 0015E DD 00161	CALLS PUSHL	#2, LNKSMAPOUT LNKSGL_OBJRECS OUTBUFDESC	0379
		24 00 FE38	AE C8	9F 00167 9F 0016A 9F 0016D FB 00171	PUSHAB PUSHAB PUSHAB	OUTLINELENG OBJRECS	
		6A 7E 04		FB 00171 3C 00174	CALLS	M4. SYSSFAO	0380
		69	AE 02	3C 00174 9F 00178 FB 0017B	PUSHAB CALLS	OUTLINELENG, -(SP) BUFFER #2, LNK\$MAPOUT	;
		7E 00000000G 00000000G	00	DD 0017E 3C 00184	MOVZWL PUSHAB CALLS PUSHL MOVZWL	#2, LNK\$MAPOUT LNK\$GL_DBGESTIM LNK\$GW_DBGRECS, -(SP)	0381
		000000006 2C 14	AE AE	DD 0018B 9F 00191	PUSHAB PUSHAB PUSHAB PUSHAB	OUTBUFDESC	:
		FE98	8) 06	9F 00197	PUSHAB	OUTLINELENG LIBRECS	
		6A 7E 04 2C	AE AE	3C 0019E	MOVZWL	#6, SYS\$FAO OUTLINELENG, -(SP) BUFFER #2, LNK\$MAPOUT	0382
		69 50 00000000G	AA00000AAC0AA0003	FB 001A5 D0 001A8	MUVL	FWKACF D21FND' DROBA1F2	0384
	05 27 02	6B AB 7E 000000006 7E 000000006	06 00 00 00 50 AE C8	DD 0017E 3C 00184 DD 0018B 9F 00191 9F 00194 9F 00197 FB 0019B 3C 0019E 9F 001A5 DD 001A8 13 001AF E0 001B1 E1 001B3 5C 001C1 DD 001C8 9F 001CA	PUSHL	7\$ #6, LNK\$GL_CTLMSK, 6\$ #2, LNK\$GL_CTLMSK+2, 7\$ LNK\$GW_DSTBLKS, -(SP) LNK\$GW_DSTVBN, -(SP) DBGBYTES	0387
		2C 14 FEF4	AE AE (8	9F 001CA 9F 001CD 9F 001D0	PUSHAB PUSHAB PUSHAB	OUTBUFDESC OUTLINELENG DBGDATA	:

LN VO

0000000G

			16-Sep- 14-Sep-	1984 00:33 1984 12:40	: 36 : 36	VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;	Pag 1	ge 13 (2)
6A 7E	04 AE 04 AE 02 AE 02 7E 2C AE 02 O0000000G 00 24 AE 0C AE FF30 C8	3C QO	104 107	CALLS MOVZWL	#6, SY	YS\$FAO NELENG, -(SP)	•	0388
69	2C AE	9F 001	1 DB	PUSHAB	BUFFE	₹		
0,	7E	04 00	10E 1E1 7\$: 1E3	CALLS CLRL	-(SP)	NK\$MAPOUT	•	0391
69	2C AE	9F 001	1E3 1E6	PUSHAB Calls	BUFFE	R NK\$MAPOUT	•	
0,	၀၀၀၀၀၀၀၀ ဝိုဝို	DD 00.	1 E9	LO2UF	LNK\$G	NMODSEXP FDESC	•	0392
	24 AE 00 AE	9F 001	1 E F 1 F 2	PUSHAB PUSHAB	OUTBU	FDESC NELENG	•	
	FFŽŎ ĈŧŦ	9F 00'	1F5	PUSHAB	EXTRM	ODS	:	;
6A 7E	04 04 AF	FB 001	1F9 1FC	CALLS MOVZWL	#4 SY	YS \$ FAO NELENG, -(SP)	•	0393
	04 ÅE 20 ÅE	9F 002	200	PUSHAB	BUFFE	NK\$MAPOUT	:	;
69	00000000 00	FB 00 DD 00 9F 00	205 206	CALLS PUSHL	WZ, LI	NKSMAPOUT NMODSPCH	•	0394
	24 AE	9F 00	200	PUSHAB	OUTBU	NMODSRCH FDESC NELENG		; 0374
	ÖC AĒ FF6C C8	9F 007	20F 212	PUSHAB PUSHAB	OUTLI! SRCHM	NELENG Dos		:
6A 7E	04	FB 007	216	CALLS	#4, S'	YS\$FAO		
7E	04 AE 20 AE	3C 007	219 21D	MOVZWL PUSHAB	OUTLII BUFFEI	NELENG, -(SP)	•	0395
69	ŽČ ŠŽ	FB 002	220	CALLS	#2, LI	NK\$MAPOUT		
	04 AE 2C AE 02 7E 2C AE 02	D4 007 9F 007	223 225	CLRL PUSHAB	-(SP) BUFFEI		•	0396
69	95	FB 00	228	CALLS	#2, LI	NK\$MAPOUT		
	00000000G 00 24 AE	DD 007 9F 007	22B 231	PUSHL PUSHAB	LNKSGI	NK\$MAPOUT L_FUTLSRCH FDESC		0397
	OC AE	9F 00	228 228 231 234	PUSHAB	00151	VELEMG	:	;
6.4	B8 A8 04	9F 00	237 234	PUSHAB	FUTLSI	RCH YS \$ FAO		;
6A 7E	04 ÅE	30 002	23D	CALLS MOVZWL	OUTLI	NELENG, -(SP)	•	0398
69	2C AĒ	9F 002 FB 002	241 244	PUSHAB Calls	BUFFER	R NK SM apout	•	}
0,	04 AE 20 AE 02 7E	D4 002	247	CLRL	-(SP)		•	0399
69	2C AĒ	9F 002 FB 002		PUSHAB	BUFFE	NA CMA DOLLT	•	}
50 51	000000006 00	- 3C 002	74F	CALLS MOVZWL	LNK\$G	NK\$MAPOUT J_SYMRECS, RO	•	0400
51	00000000G 00 6140	3C 002 9F 002	256 250	MOVZWL	LNK\$GV	JGSTRECS, R1 R0]		}
	24 AE	9F 002	260	PUSHAB PUSHAB	OUTBU	DESC		
	0C AE F8 A8	9F 00	263	PUSHAB PUSHAB	OUTLIN SYMRE	MELENG		
6A	04	FB 002	269	CALLS	#4 , 51	75\$FAU	•	
6A 7E	04 AE 20 AE	30 002	26C 270	MOVŽŴL PUSHAB	OUTLIN BUFFER	NELENG, -(SP)		0401
69	02	FB 002	273	CALLS	#2, LI	NK\$MAPOUT	•	
	ŽĒ 20 A Ē	D4 002	276	CLRL PUSHAB	-(SP) BUFFER	•	•	0402
69	20 AC 02 53	FB 003	278 27 B	CALLS	#2. LI	NK SMAPOUT	•	
	00000000° EF	FB 00. 04 00. 9F 00.	27E	CLRL PUSHAB	PCHARS	S ND_DESC	•	0412
	FC20 C8	9£ 004	286	PUSHAB	SD_\$L	INE LISGET_VALUE	•	נודט
00 52	00000000' EF	FB 00	28A 201	CALLS MOVZWL	#2, CI	ISGET VALUE	•	0414
76	52 28	D5 002	79X XS:	TSTL	CHARS	ND_DEST, CHARS	•	0416
	28	15 002	29A	BLEQ	10\$:	ı

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LNK
VO
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LNK_STATSOUT V04=000	B 12 16-Sep-1984 00:33:36 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:40:36 [LINKER.SRC]LNKSTATSO.B32;1	Page 14 (2)
0000000G	50	0418 0419 0420 0421 0416 0426 0427 0430 0429 0432 0432
; Routine Size: 748 bytes, Routine	Base: \$CODE\$ + 0000	
: 325 0438 1 : 326 0439 1 end : 327 0440 0 eludom		

PSECT SUMMARY

Name	Bytes			Attributes		
SPLITS SOWNS SCODES	8	NOVEC, NOWRT, NOVEC, WRT, NOVEC, NOWRT,	RD	, NOEXE, NOSHR,	REL,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2)

Library Statistics

file	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	9	0	1000	00:02.0
_\$255\$DUA28:[LINKER.OBJ]DATBAS.L32;1	538	6	1	2 8	00:00.8

VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKSTATSO.B32;1

Page 15 (2)

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:LNKSTATSO/OBJ=OBJ\$:LNKSTATSO MSRC\$:LNKSTATSO/UPDATE=(ENH\$:LNKSTATSO)

328 0441 0 Size: 748 code + 1160 data bytes Run Time: 00:17.7

!End of module

Run Time: 740 code 7 Run Time: 00:17.7 Elapsed Time: 00:54.4 Lines/CPU Min: 1499 Lexemes/CPU-Min: 15372 Memory Used: 217 pages Compilation Complete : 1

LNI VOI 0219 AH-BT13A-SE

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